C1

(Dodecylpoly(ethyleneglycolether)$_n$) or 0.01 % NONIDET P40™ (Ethylphenolpoly(ethyleneglycolether)$_n$).--

On page 5, please replace the paragraph beginning "The DNA polymerase of..." with the following new paragraph:

C2

--The DNA polymerase of the present invention has a very high thermal stability at 95°C. It retains approximately 90 percent of its activity after incubation at 95°C for 120 minutes in the presence of stabilizer. The thermal stability is determined by preincubating the enzyme at the temperature of interest in the presence of all assay components (buffer, $MgCl_2$, deoxynucleotides, activated DNA and a stabilizer like 0.01 % THESIT™ (Dodecylpoly(ethyleneglycolether)$_n$) or 0.01 % NONIDET P40™ (Ethylphenolpoly(ethyleneglycolether)$_n$)) except the single radioactively-labeled deoxynucleotide. At predetermined time intervals, ranging from 1-120 minutes, small aliquots are removed, and assayed for polymerase activity using one of the methods described above.--

On page 18, please replace the paragraph beginning "The active fractions were...", with the following new paragraph:

C3

--The active fractions were pooled, dialyzed twice against 500 ml Buffer B and applied to a Fractogel TSK AF-Blue column (1x10; 7.8 ml bed volume) equilibrated with buffer B. After washing with 15 ml buffer B, the column was eluted with a linear gradient of 156 ml from 0 to 3 M NaCl in buffer B supplemented with 0.05 % THESIT™ (Dodecylpoly(ethyleneglycolether)$_n$). The active fractions were pooled and dialyzed against the storage buffer C (20 mM Tris-HCl, pH 8.2; 10 mM 2-mercaptoethanol; 0.1 mM EDTA; 50 mM $(NH_4)_2SO_4$; 50 % glycerol). After adding of 0.5 % of NONIDET P40™ (Ethylphenolpoly(ethyleneglycolether)$_n$ (v/v) and 0.5 % of THESIT™ (Dodecylpoly(ethyleneglycolether)$_n$) (v/v) the preparation was stored at -20°C.--

Please replace the paragraph on page 19 beginning "The thermostability of the...", with the following new paragraph:

C4

--The thermostability of the DNA polymerase from *T. gorgonarius* purified as described in Example I was determinated as follows: 5 units purified *T. gorgonarius* polymerase were incubated at 95°C in 100 µl of the following buffer: 50 mM Tris-HCl, pH